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Date: 8/2/2021 7:01:00 AM
Subject: Arkema Riverbank Soil Sampling Field Summary
Attachments: [Figure_3_2a_b_Proposed_Sampling.pdf](#)

Hi Madi,

The Arkema riverbank soil sampling was conducted from July 20 to July 26, 2021. A total of 38 borings were completed using hand equipment including a hand auger, post-hole digger, and impact corer. Two planned borings were not completed during this mobilization. RH-01 and RH-02 are on BNSF property and will be sampled in the coming weeks when we have an executed access agreement. We will provide you with at least a week of notice on the proposed sampling date for the BNSF borings.

The borings are circled in green on the attached map were sampled, as noted below (all borings were advanced to 4 ft bgs unless otherwise noted):

- RH-03. Refusal at 3.8 ft bgs. The 3-4 ft interval sample was collected from 3.0 to 3.8 ft bgs.
- RH-04.
- RH-05. Refusal at 3.5 ft bgs. The 3-4 ft interval sample was collected from 3.0 to 3.5 ft bgs.
- RH-06.
- RH-07.
- RH-08.
- RH-09.
- RH-10.
- RH-11. EPA's split sample was collected from the 0-1 ft interval.
- RH-12. Refusal at 3 ft bgs on the third attempt. The 3-4 ft interval was not sampled.
- RH-13.
- RH-14.
- RH-15.
- RH-16.
- RH-17.
- RH-18. Refusal at 2.3 ft bgs on the fourth attempt. The 2-3 ft sample was collected from 2-2.3 ft bgs. The 3-4 ft interval was not sampled.
- RH-19.
- RH-20.
- RH-21.
- RH-22.
- RH-23. Refusal at 3.0 ft bgs. The 3-4 ft interval was not sampled.
- RH-24.
- RH-25. Refusal at 3.5 ft bgs. The final sample was collected from 3-3.5 ft bgs. Soil boring RH-25 was moved 9.5 ft to the east (downslope) of the original location. Heavy equipment would have been needed to sample at the original location. Debris, such as concrete and rock, extended 9.5 ft east of the proposed location. The selected boring location was the closest to the original location that could be accessed.
- RH-26. Refusal at 2.0 ft bgs on the fourth attempt. Neither the 2-3 ft or 3-4 ft samples were collected. There appeared to be a layer of concrete at approximately 2 ft bgs in the vicinity of RH-26.
- RH-27. Refusal at 3.3 ft bgs. The final sample was collected from 3-3.3 ft bgs. Soil boring RH-27 was moved 20 ft to the east (downslope) of the original location. The original location was on a steep slope with large concrete debris that could not be moved without undermining the slope. The selected boring location was the closest to the original location that could be accessed safely.
- RH-28. Refusal at 2.0 ft bgs on the fourth attempt. Neither the 2-3 ft or 3-4 ft samples were collected. There

- appeared to be a layer of concrete at approximately 2 ft bgs in the vicinity of RH-28.
- RH-29. Refusal at 3.5 ft bgs. The final sample was collected from 3-3.5 ft bgs.
- RH-30.
- RH-31.
- RH-32. A slight petroleum-like odor was encountered in RH-32 from 2-4 ft bgs. PID readings were 0 ppm and there was no evidence of staining or sheens.
- RH-33. Refusal at 3.7 ft bgs. The final sample was collected from 3-3.7 ft bgs.
- RH-34.
- RH-35.
- RH-36.
- RH-37.
- RH-38. An EPA split sample was collected from 0-1 ft bgs.
- RH-39.
- RH-40.

No health and safety incidents occurred. Asbestos air monitoring was conducted for the first three days and the fiber counts for all samples were below the applicable screening levels. Respirator use was discontinued after the first two days to address heat stress issues (no fibers were detected in the asbestos air monitoring samples the first two days).

There were no deviations from the work plan beyond Field Change Request forms FCR-04 (Abandonment of Riverbank Boreholes Performed using Post-Hole Digger), FCR-05 (Riverbank Soil Sample Intervals and Repeat Boring Attempts), and FCR-06 (Move RB-27 approximately 20 ft east due to safety concerns).

Please let me or Mike know if you have any questions. Thanks!

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